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=> s (polypropylene or (propylene (1a) (polymer or copolymer)) or
polyolefin) (4a) (hydrosilylat?)
3 FILES SEARCHED...

L1 57 (POLYPROPYLENE OR (PROPYLENE (1A) (POLYMER OR COPOLYMER)) OR
POLYOLEFIN) (4A) (HYDROSILYLAT?)

=> s (polypropylene or (propylene (1a) (polymer or copolymer)) or
polyolefin) (4a) (hydrosilylat?)

L2 119 (POLYPROPYLENE OR (PROPYLENE (1A) (POLYMER OR COPOLYMER)) OR
POLYOLEFIN) (4A) (HYDROSILYLAT?)

=> s 12 and branched or branching or branches

L3 243052 L2 AND BRANCHED OR BRANCHING OR BRANCHES

=> s (polypropylene or (propylene(1a)(polymer or copolymer)) or
polyolefin) (4a) (branch####)

L4 2201 (POLYPROPYLENE OR (PROPYLENE(1A) (POLYMER OR COPOLYMER)) OR POLYO
LEFIN) (4A) (BRANCH####)

=> s 12 and 14

L5 5 L2 AND L4

=> d 15 1-5 ibib abs

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:133740 CAPLUS

DOCUMENT NUMBER: 132:152731

TITLE: Melt phase **hydrosilylation** of
polypropylene

INVENTOR(S): Tzoganakis, Costas; Malz, Hauke

PATENT ASSIGNEE(S): University of Waterloo, Can.

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

09/762,765

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NEWS 4 May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5 May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in Cplus
NEWS 6 May 27	Cplus super roles and document types searchable in REGISTRY
NEWS 7 Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
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DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000009577	A1	20000224	WO 1999-CA731	19990811
W: CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2340430	AA	20000224	CA 1999-2340430	19990811
EP 1115757	A1	20010718	EP 1999-938079	19990811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002522604	T2	20020723	JP 2000-565020	19990811
PRIORITY APPLN. INFO.:			US 1998-96650P	P 19980814
			WO 1999-CA731	W 19990811
			WO 1999-CA9577	W 19990811

AB **Branched** copolymers of **polypropylene** (PP) and hydrogen siloxanes are prepared by procedures involving melt phase hydrosilylation. Such branched copolymers may be formed in situ during the melt phase hydrosilylation or may be prepared by subsequent processing. The branched copolymers exhibit superior elasticity over the original PP for use in spinning, thermoforming, blow molding, and foaming and are reactable with surfaces and polymers having OH groups, such as glass fibers.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:543110 CAPLUS

DOCUMENT NUMBER: 129:176169

TITLE: Reaction of polyolefins with polyhydrosilanes for preparation of **branched polyolefin** polymers

INVENTOR(S): Janssen, Koen Jan Gerarda; Bruls, Wilhelmus Gerardus Marie; Rauch, Theodoor Wilhelm Leonard; Van Boggelen, Michel Paul; Rademarkers, Gerardus Arnoldus

PATENT ASSIGNEE(S): DSM N.V., Neth.

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9833842	A1	19980806	WO 1998-NL58	19980128
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9858841	A1	19980825	AU 1998-58841	19980128
PRIORITY APPLN. INFO.:			US 1997-797647	19970131
			WO 1998-NL58	19980128

AB **Branched polyolefins** in the form of a comb, star, nanogel, or structural combinations thereof are prepared by reacting polyolefin pre-arms with a polyhydrosilane in the presence of a hydrosilylation catalyst, in which the catalyst is dosed to the reaction mixture at an elevated temperature to promote the addition of Si-H groups across the

ethylenic unsatn. of the polyolefin pre-arm. The method of the invention can be carried out optionally in the presence of an accelerator to promote the hydrosilylation reaction.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:543107 CAPLUS

DOCUMENT NUMBER: 129:176166

TITLE: Preparation and use of **branched polyolefins**

INVENTOR(S): Bostoen, Claude Leo; Janssen, Koen Jan Gerarda; Tacx, Jacobus Christinus Josephus Franciscus

PATENT ASSIGNEE(S): DSM N.V., Neth.

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9833839	A1	19980806	WO 1998-NL49	19980123
W:	AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9856823	A1	19980825	AU 1998-56823	19980123
PRIORITY APPLN. INFO.:			EP 1997-200242	19970131
			WO 1998-NL49	19980123

AB A branched polymer in the form of a comb, star, nanogel, or any structural combination thereof comprises a plurality of polyolefin arms selected polymers of 1-alkenes or combinations thereof linked to a polymer backbone. Backbone having repeating units containing a group selected from aliphatic groups, aromatic groups, heteroatom containing groups, and combinations thereof and wherein the polyolefin arms have a polydispersity equal to or less than 1.8. In an example ethylene-**propylene copolymer** was subjected to the **hydrosilylation** reaction with polymethylhydrosiloxane to give a branched polymer of this invention. The polymers of this invention are useful as impact modifiers and additives to lubricant oils and fuels.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:527128 CAPLUS

DOCUMENT NUMBER: 129:176162

TITLE: Preparation of **branched polyolefins** with high molecular weight

INVENTOR(S): Repin, Johannes Fredericus; Bruls, Wilhelmus Gerardus Marie; Janssen, Koen Jan Gerarda

PATENT ASSIGNEE(S): DSM N.V., Neth.

SOURCE: Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 856545	A1	19980805	EP 1997-200243	19970131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 9858839	A1	19980825	AU 1998-58839	19980126
PRIORITY APPLN. INFO.:			EP 1997-200243	19970131
			WO 1998-NL52	19980126

AB Polyolefin with high mol. weight in the form of a comb, star, nanogel or structural combinations thereof comprises a plurality of polyolefin arms each independently selected from the group consisting of homo- and copolymers of substituted and unsubstituted 1-alkenes linked to a polymer backbone, the backbone having repeating units containing a group selected from the group consisting of aliphatic groups, aromatic groups, heteroatom-containing groups and combinations thereof, in which the polyolefin polymer has a mol. weight (Mw) of at least 0.8×10^6 g/mol, the polyolefin arm has a mol. weight (Mw) of at least 5×10^3 g/mol. The ratio between the mol. weight (Mw) of the polyolefin polymer and the mol. pre-arm is 4-20. The polyolefin arms are typically prepared using metallocenes.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:527123 CAPLUS

DOCUMENT NUMBER: 129:161973

TITLE: Product formed from branched olefin polymers

INVENTOR(S): Bruls, Wilhelmus Gerardus Marie; Repin, Johannes Fredericus; Janssen, Koen Jan Gerarda; Tas, Paul Prudent; Wierda, Klaas

PATENT ASSIGNEE(S): DSM N.V., Neth.

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 856541	A1	19980805	EP 1997-200239	19970131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 9858843	A1	19980825	AU 1998-58843	19980128
PRIORITY APPLN. INFO.:			EP 1997-200239	19970131
			WO 1998-NL60	19980128

AB The title product is formed from a **branched polyolefin** in the form of a comb and structural equivalent thereof comprising a plurality of polyolefin arms linked to the polymer backbone, the backbone having repeating units containing a group selected from the group consisting of aliphatic groups, aromatic groups, heteroatom-containing groups and combinations thereof, prepared by: (a) coupling a polyolefin pre-arm with a reactive polymeric backbone; or (b) polymerization of a polyolefin pre-arm, to form the **branched polyolefin**, and wherein the **branched polyolefin** has a melt flow index (MFI) of 0.005-50 dg/min.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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